



PROFESSIONAL ANALYTICAL SERVICES PRICELIST ICA, UTM KAMPUS PAGOH

TYPE OF ANALYSIS		PRICE (RM)		PERSON IN-CHARGE	LOCATION	
		INTERNAL	EXTERNAL			
KLUSTER ANALISIS MAKMAL Ketua Kluster: NORLIZA ABDUL LATIFF	HIGH PERFORMANCE LIQUID CHROMATOGRAPHY a. Diode Array Detector b. Fluorescence Detector c. Evaporative Light Scattering Detector	100.00	150.00	Khairunnisa Embi Penolong Pegawai Sains Nooraina Atira Alaudin Penolong Pegawai Sains	Makmal Biokimia	
	ANTIOXIDANT ASSAY a. DPPH Assay b. ABTS Assay	70.00	100.00	Salimah Ab Malik Penolong Pegawai Penyelidik		
	TOTAL PHENOLIC CONTENT (Reference: Gallic Acid)	70.00	100.00	Hajar Aminah A.Karim Penolong Pegawai Penyelidik		
	TOTAL FLAVANOIDS CONTENT (Reference: Rutin)	70.00	100.00			
	FOURIER-TRANSFORM INFRARED SPECTROSCOPY	40.00	70.00	Mohamad Zulhelmi Nazri Penolong Pegawai Sains Salimah Ab. Malik Penolong Pegawai Penyelidik	Makmal Analisis Makanan	
	GAS CHROMATOGRAPHY – FLAME IONIZATION DETECTOR	100.00	150.00	Mohamad Zulhelmi Nazri Penolong Pegawai Sains Khairunnisa Embi Penolong Pegawai Sains		
	PROXIMATE ANALYSIS (NUTRITIONAL VALUE) a. Total Protein b. Fat c. Ash d. Moisture e. Crude Fiber f. Carbohydrate	250.00 40.00 30.00 30.00 80.00 60.00 10.00	300.00 50.00 40.00 40.00 90.00 70.00 10.00	Mohamad Zulhelmi Nazri Penolong Pegawai Sains Noorafizah Dzahir Penolong Pegawai Penyelidik		
	VISCOSITY	7.00	10.00	Noorafizah Dzahir Penolong Pegawai Penyelidik		
	KLUSTER ANALISIS PERTANIAN Ketua Kluster: SUHIR SULAIMAN	pH VALUE	7.00	15.00		Mohd Azlan Jalal Penolong Pegawai Penyelidik
		ELECTROCONDUCTIVITY	10.00	15.00		
MOISTURE CONTENT		20.00	30.00			
ORGANIC MATTER		40.00	60.00	Mohamad Azzuan Rosli Penolong Pegawai Penyelidik		
SOIL TEXTURE (HYDROMETER)		15.00	20.00			
TOTAL NITROGEN (KJEDAHL METHOD)		80.00	90.00	Hajar Aminah A. Karim Penolong Pegawai Penyelidik		
WATER RETENTION (pF DETERMINATION SYSTEM)		80.00	100.00	Mohd Azlan Jalal Penolong Pegawai Penyelidik	Makmal Pengujian Tanah	
PLANT PHYSIOLOGY (LICOR PORTABLE PHOTOSYNTHESIS SYSTEM)		700.00	-	Mohammad Azzuan Rosli Penolong Pegawai Penyelidik		

KLUSTER ANALISIS BIOLOGI Ketua Kluster: DR. ABD RAHMAN JABIR MOHD DIN	TOTAL PLATE COUNT	Food Sample	Environmental Sample	30.00	40.00	Nur Hidayah Shadan Penolong Pegawai Sains	Makmal Mikrobiologi
	YEAST AND MOLD			30.00	40.00		
	LACTOBACILLUS			40.00	60.00		
	NITROGEN FIXING BACTERIA			40.00	60.00		
	TRICHODERMA			40.00	60.00		
	ANTIMICROBIAL TEST a. Bacteria: <i>Eschericia coli</i> , <i>Staphylococcus aureus</i> b. Fungus: <i>Candida albicans</i> , <i>Fusarium oxysporum</i> , <i>Botrytis cinerea</i>			30.00	45.00	Zaheda Mohamad Azam Penolong Pegawai Penyelidik	
	STRAIN PURCHASE a. List of Strain [LINK] b. Microorganism Strain Transfer Form [LINK]			100.00/strain			
	CYTOTOXIC ASSAY (MTT ASSAY)			700.00	750.00	Nooraina Atira Alaudin Penolong Pegawai Sains	Makmal Kultur Sel
	WOUND HEALING ASSAY (WOUND CLOSURE)			550.00	600.00		
	MICROTITER BLUE ASSAY			700.00	750.00		
NITRIC OXIDE PRODUCTION ASSAY (GRIESS ASSAY)			1,100.00	1,200.00			
ANTI-INFLAMMATORY ASSAY: COX-1 OR COX-2 (KIT)				1,100.00			
ANTI-INFLAMMATORY ASSAY: 15-LOX (KIT)				800.00			
Ketua Makmal: KHAIRILANUAR MOHD HANIMI	FREEZE DRYING (Kapasiti: 60 L)	SOLID (24h)	1,600.00/batch	1,800.00/batch	Abd Rahim Idris Penolong Jurutera	Makmal Biorefineri	
		LIQUID (36h)	1,800.00/batch	2,000.00/batch			
	VACUUM TRAY DRYING (Kapasiti: 100 L)			1,100.00/batch			1,500.00/batch

We also offer lab and equipment rental based on request.
For further information, please contact Laboratory Manager:

NUR FASHYA BINTI MUSA
RESEARCH OFFICER (QA44)
Tel : 06 – 9742856
Email: nurfashya@utm.my

LIST OF STRAINS IN ICA MICROBIAL CULTURE COLLECTION

No.	Accession number	Strain name	Origin	Microbial classification
1.	IMCC 1001	<i>Bacillus</i> sp. (<i>B. velezensis</i> -like)	Vinegar	Bacteria
2.	IMCC 1002	<i>Stenotrophomonas</i> sp. (<i>S. pavanii</i> -like)	Pineapple	Bacteria
3.	IMCC 1003	<i>Curtobacterium</i> sp. (<i>C. herbarum</i> -like)	Pineapple	Bacteria
4.	IMCC 1004	<i>Lactobacillus</i> sp. (<i>L. paracasei</i> -like)	Vinegar	Bacteria
5.	IMCC 1005	<i>Streptomyces</i> sp. (<i>S. xylaniticus</i> -like)	Pineapple	Bacteria
6.	IMCC 1006	<i>Acetobacter</i> sp. (<i>A. lovaniensis</i> -like)	Pineapple	Bacteria
7.	IMCC 1007	<i>Burkholderia</i> sp. (<i>B. cepacia</i> -like)	Rhizospheric soil of maize	Bacteria
8.	IMCC 1008	<i>Cupriavidus</i> sp. (<i>C. taiwanensis</i> -like)	Rhizospheric soil of maize	Bacteria
9.	IMCC 1009	<i>Sinomonas</i> sp. (<i>S. antrocyanea</i> -like)	Rhizospheric soil of maize	Bacteria
10.	IMCC 1010	<i>Serratia</i> sp. (<i>S. marcescens</i> -like)	Rhizospheric soil of maize	Bacteria
11.	IMCC1011	<i>Chitinophaga</i> sp. (<i>C. terrae</i> -like)	Rhizospheric soil of maize	Bacteria
12.	IMCC 2001	<i>Pleurotus sajor caju</i>	Mushroom	Fungus
13.	IMCC 2002	<i>Pleurotus ostreatus</i>	Mushroom	Fungus
14.	IMCC 3001	<i>Saccharomyces cerevisiae</i>	Pineapple	Yeast



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

**Innovation Centre in Agritechology for
Advanced Bioprocessing (ICA)**

BORANG PEMINDAHAN STRAIN MIKROORGANISMA

Maklumat Strain

Nama saintifik : _____

Status strain : _____

Sumber isolasi : _____

Accession no. : _____

Strain mikroorganisma yang disenaraikan di atas dimiliki sepenuhnya oleh Innovation Centre in Agritechology for Advanced Bioprocessing, UTM Pagoh. Penerima strain mikroorganisma perlu memenuhi peraturan berikut:

1. Penerima akan memastikan bahawa strain mikroorganisma tersebut hanya diaplikasikan untuk aktiviti penyelidikan, pembangunan serta bagi tujuan pembelajaran sahaja.
2. Tidak melakukan pemindahan strain mikroorganisma tersebut kepada organisasi lain.
3. Penerima perlu bertanggungjawab sepenuhnya untuk mematuhi peraturan dan undang-undang berkaitan pengurusan/penyimpanan strain mikroorganisma seperti yang telah ditetapkan oleh organisasi penerima.
4. Sebarang penerbitan akan datang perlu disertakan nama strain secara jelas sepertimana tertera diatas dan nama organisasi pembekal perlu dinyatakan bersama sebagai penulis bersama.

Pengesahan Pembekal

Tandatangan : _____

Nama : _____

Jawatan : _____

Organisasi : _____

Pengesahan Penerima

Tandatangan : _____

Nama : _____

Jawatan : _____

Organisasi : _____